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SECONDARY ACCESSION
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TITLE

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Prim. Leclanche type cell - avoids use of cadmium and mercury, and contains an organic corrosion inhibitor

A85 L03 M14 X16

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Cell has a flat, hollow cylindrical or beaker shaped Zn-anode a cathode depolariser and a gel or gel-coated paper separator. the anode material is ZnPb alloy with 0.1-0.6, pref. 0.1-0.3 wt.% Pb and the rest pure Zn, e.g. of 99.95% purity. The inhibitor used, polyethylene glycolmonolaurylether, has been added to the separator or to the mass, e.g. in a quantity of 10 power(-3)-2 wt.%, pref. 0.01-0.2 wt.% of the total prim. element.

USE/ADVANTAGE - Cell avoids the use of Cd, currently used to improve the mechanical stability of the Zn-alloy, and of Hg which is currently used as inhibitor. This makes the cell environmentally less dangerous without restricting the mfg. methods of the cell. The feature can be used for Leclanche type cells and for atmospheric oxygen type cells. (0/3)

CITATIONS

APPLICATION DETAILS

SECONDARY INT'L. CLASS.

ABSTRACT